



가

JP-A-6-502194 (USP 5,464,632)

가 60

JP-A-5-92918

500 μm

JP-A-63-301816 USP 5,026,560

EP-A-0452862

가 50 %  
(seed core)  
500 μm

100 - 1000 μm

JP-A-1-268627, JP-A-1-268628 JP-A-8-27033

JP-A-9-48726

가

가

가

JP-A-5-271054

JP-A-9-71523

가

가  
가

(400 μm )

400

μm

350 μm

( )  
 (acid-resistance)  
 (20  
 $\mu\text{m}$ ) 가 가 ,가 가 가  
 20  $\mu\text{m}$  가 - /  
 ( ) , 400  $\mu\text{m}$  가 ,  
 가  
 ) 가 ,  
 가 가 ,

- [1] (i) 400  $\mu\text{m}$  , (ii) 가 , 10 % ;
- [2] [1] , 300 400  $\mu\text{m}$  ;
- [3] [1] , ;
- [4] [1] , 가 가 ;
- [5] [1] , ;
- [6] [4] , 가 가 (i) / (ii) ;
- [7] [1] , 425  $\mu\text{m}$  ;
- [8] [1] , 400  $\mu\text{m}$  ;
- [9] [1] , - ;
- [10] [9] , ;
- [11] [3] , / ;

- [12] [1] , ;
- [13] [12] , 50 % ;
- [14] [12] , 40 50 % , 50 60 % ;
- [15] [1] , 20 % - ;
- [16] [1] , 20 50 % - ;
- [17] [1] , ;
- [18] [1] , ;
- [19] [18] , 가 ;
- [20] [18] , ;
- [21] [20] , 가 ;
- [22] [20] , 가 100 % 5 15 % ;
- [23] [4] , ;
- [24] [4] , ;
- [25] [5] , , 100 % 5  
97 % ;
- [26] [4] , , 가 , 100 % 3 50 % ;
- [27] [6] , , 7.0 9.  
9 % ;
- [28] [6] , , 5.0 7.  
0 % ;
- [29] [1] , ;
- [30] [1] , 1 ;
- [31] [1] , ;
- [32] 400  $\mu\text{m}$  , , (i) 25  
% - , (ii) , ;
- [33] [32] , 300 400  $\mu\text{m}$  ;
- [34] [32] , 425  $\mu\text{m}$  ;
- [35] [32] , 400  $\mu\text{m}$  ;

[36] [32] , - ;

[37] [36] , ;

[38] [32] , / ;

[39] [32] , ;

[40] [39] , 50 % ;

[41] [32] , 25 40 % - ;

[42] [32] , ;

[43] [32] , ;

[44] [43] , 가 ;

[45] [43] , ;

[46] [45] , 가 ;

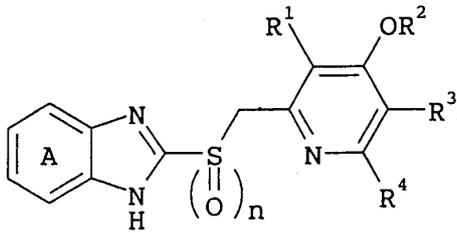
[47] [45] , 가 100 % 5 15 % ;

[48] [32] , 100 % 50 70 % ;

[49] [32] , , , , .  
 , ' ' ( , ) , ,  
 ' ' , 가 , , 가  
 ' ' , ( : 50 % ) , : HEROS ROD  
 OS [ ; Sympatec ( ) ]  
 ' ' (i) 400 μm , (ii) 가 ,  
 , 10 % - ,  
 , '10 % - , 가 , 400 μm  
 , 400 μm , 300 400 μm .  
 , 400 μm , 300 425 μm, 425 μm , 300  
 400 μm .  
 ' 425 μm ' ' 400 μm ' ' , 가  
 , ( 5 % )  
 ' - ' / ,  
 B 12 , , A, D ,

I 가 :

[ I ]



( ; R<sup>2</sup> ; n 0 1 ). ; R<sup>1</sup>, R<sup>3</sup> R<sup>4</sup> ; ( ) ; C<sub>1-4</sub> ; C

I ; A' ; ( ) ; C<sub>1-10</sub> ; C<sub>1-10</sub> ; C<sub>1-7</sub> ; C<sub>3-7</sub> ; C<sub>1-4</sub> ; C<sub>2-16</sub> ; C<sub>1-4</sub> ; C<sub>1-4</sub> ; C<sub>1-7</sub> ; C<sub>1-6</sub> ; C<sub>1-4</sub> ; C<sub>2-6</sub> ; C<sub>6-12</sub> ; C<sub>6-12</sub> ; C<sub>1-6</sub> ; C<sub>1-6</sub> ; C<sub>1-6</sub> ; C<sub>1-6</sub>

(1) C<sub>1-10</sub> ; (2) ; (3) 1 2 C<sub>3-7</sub> ; C<sub>1-4</sub> ; C<sub>1-4</sub> ; C<sub>2-16</sub> ; (4) ; (5) ; (6) ; 1 3 ;

C<sub>1-4</sub> ; C<sub>1-10</sub> ; (1) ; (2) ; (3) 1 2 C<sub>1-4</sub> ; (4) ; (5) ; 1 3 ;

C<sub>1-6</sub> ; C<sub>2-6</sub> ;

C<sub>1-4</sub> ; C<sub>2-4</sub> ;

C<sub>2-6</sub> ; C<sub>2-6</sub> ;

C<sub>6-12</sub> ;

C<sub>6-12</sub> ;

R<sup>1</sup>, R<sup>3</sup> R<sup>4</sup> ; C<sub>1-10</sub> ; n- ; n- ; sec- ; tert- ; n- ; C<sub>1-6</sub> ; C<sub>1-3</sub> ;

R<sup>1</sup>, R<sup>3</sup> R<sup>4</sup> ; C<sub>1-10</sub> ; n- ; n- ; sec- ; tert- ; n- ; C<sub>1-6</sub> ; C<sub>1-3</sub> ; 가 ;

R<sup>2</sup> ; C<sub>1-4</sub> ; C<sub>1-4</sub> ; C<sub>1-4</sub> ; n- ; n- ; ( ) ; sec- ; tert- ;

C<sub>1-4</sub> ; n- ; C<sub>1-4</sub> ; sec- ; tert- ; C<sub>1-4</sub> ; n- ;

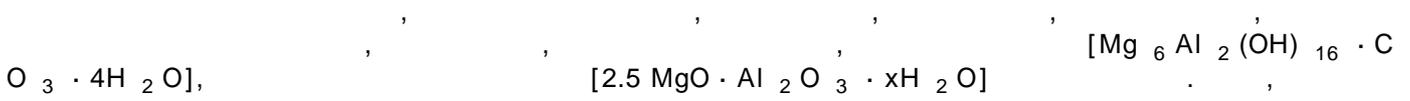
C<sub>1-4</sub> ; 1 3 ;

가

JP-A-52-62275, JP-A-54-141783, JP-A-57-53406, JP-A-58-135881, JP-A-58-192880, JP-A-59-181277, JP-A-61-50978, JP-A-62-116576, JP-A-62-277322, JP-A-62-258320, JP-A-62-258316, JP-A-64-6270, JP-A-64-79177, JP-A-5-59043, JP-A-62-111980, JP-A-5-117268, EP-A-166287, EP-A-519365

TU-199

23 % , 10 % , 20 % , 25 % , 20 50 % 가



, 1 % , pH (7 )

2 ( ) , 0.3 200 % , 1 100 % , 10 50 % , 20 40 %

( , 'HPC' ) , ( , 'HPMC' ) ; ( , ) , ( , )

가 ( )

HPC, HPMC 가 HPC, HPMC





), (pullulan),

( ),

가 5 2 2 ,

, D- (light)

(1) (2) (superdisintegrants),  
 [FMC-Asahi Chemical Co., Ltd. ( )], [Gotoku Chemical(Yaku  
 hin), ( )], (3) [ , Matsutani Chemical Co., Ltd. ( )], (4)  
 [ , Shin-Etsu Chemical Co., Ltd. ( )], (5)

(PVPP), 1- -2- , 1- -2-  
 Kollidon CL [BASF ( )], Polyplasdone XL [ISP Ltd. ( )], Polypasdone  
 XL-10 [ISP Ltd. ( )], Polyplasdone INF-10 [ISP Ltd. ( )] 1,000,000

( )가 , (i) , (ii)

1 10 % , 3 7 100 % , 1 15 % ,

13 mm 5 20 mm, 7 15 mm, 8

) 1 , 50 , 40 , 30

5 kg, 3 8 kg ( ) 1 20 kg, 2 1

(i) 25 % , '400 μm

(ii)

300 400 μm  
425 μm 400 μm

350 μm  
400 μm

300 400 μm

PMC)

( , HPC, HPMC ) 가  
( , HPC) ( , H

#2

5 8 mm

5 10 mm,

가

( , , , ( ) ),

( ,

00 % ( , 75 1500 100 % , 10 2500 % , 50 20  
100 1000 %

가

3 ml/g

2 ml/g

가  
가

( , , , ) ,

( , , , , ) ,

'x', Fuji Paudal Co., Ltd. ( ) Freund Industrial Co., Ltd. ( ) 'CF'  
'New - Marumerizer' Powrex Corp. ( ) 'SPIR - A - FLOW', 'multi ple

, JP - A - 5 - 92918

(

250 μm, 50 250 μm, 100 250 μm,  
100 200 μm, 가 #50 (300 μm)  
5 w/w % 가 #60 (250 μm) 10 w/w % 가 #282 (53 μm)  
5 ml/g 3 ml/g

(1) (2) 150 250 μm, (3) 50 25  
0 μm, (9) (1) ( SP, Asahi Chemical Co., Ltd. ( ) ), (4) JP-A-61-213201  
250 μm, (5) 가, (7) (8) ,  
(9) 가, (10) ,

(i) 100 200 μm, (3) (7) [ , Nonpareil 105 (70 - 140) (100 200  
μm ), Freund Industrial Co., Ltd. ( ) ], (ii) 150 250 μm, (3) [ , Nonpareil NP-7:3, Freund Industrial Co., Ltd. ( ) ], (iii)  
100 200 μm, (7) (4.5 ) (5.5 ) [ , Nonpar  
eil 105T (70-140) (100 200 μm (5 ) (5 ) [ , Nonpareil NP-5:5, Freun  
d Industrial Co., Ltd. ( ) ]

, 50 % 60 % , 40 50 %

100 200 μm (4.5 ) (5.5 )

100 % 50 400 %

가 ,

%, 0.5 10 %

0.1 50

가

0.1 50 %

가 0.1 50 %

가

#50 #50 (300 μm) 가

가

20 70 μm , 30 50 μm

70 %, % 50 70 % 30

( , 2 3)

가

가

Vertical Granulator GV10 [Powrex Corp. ( ) ], Universal Kneader [Hata Iron Works Co., Ltd. ( ) ], LAB-1 FD-3S [Powrex Corp. ( ) ], V-

- (i) -
- (ii)
- (iii) 가

JP-A-56-14098, 가 2681601

( , , , , , )

JP-A-5-271054

JP-A-9-48726, JP-A-8-291051

가

가

가 , [Kikusui Seisakusho ( )] 0.5 [Kikusui Seisakusho ( )] 3 /cm<sup>2</sup> , 1  
2 /cm<sup>2</sup>

가

(1)  
(2)  
(a) (b)  
(c)

(a)  
(b)

(l)

( ) ,  
; H. ( ) ,  
; 가 ) ;

1 ( : 60 kg) (l)  
0.5 1,500 mg/ , 5 150 mg/ .  
1 1 , 1 2 3

[ ]  
, '%' % .  
( 13 )

(1)

[Toyama Sangyo, Co. Ltd. ( ) ]

10

(2)

(3)

2 , 1 0.1 N HCl (75 rpm) 500 ml

HPLC

HPLC

= (1 0.1 N HCl ) / (

(4) : 0.1 N HCl

2 , 1 0.1 N HCl (75 rpm) 500 ml

1 N HCl

, 0.45 μm

, 0.

(5) : ( : 50 % )

, : HEROS RODOS [ , Sympatec ( ) ]

1

(1) 가

00 200 μm [Powrex Corp. ( ) , MP-10 (2 )] Nonpareil 105 (70-140) 300 g ( 1  
85 28 , 20 g/

Nonpareil

#60 가 (250 μm) #100 (150 μm) , 7 가 750 g

:

300 g

100 g

L-HPC 50 g

HPC (SSL ) 100 g

1650 g

(2)

[Powrex Corp. ( ) , MP-10 (2 )] 가 680 g  
70 36 , 10 g/

650 g

:

HPMC 32 g

(2910 , : 3 )

8 g

760 g

(3)

g [Powrex Corp. ( ) , MP-10 (2 )] - 450  
 65 36 , 17 g/  
 , #42 (355 μm) #80 (177 μm) , 40 16  
 950 g

Eudragit L30D-55 1078.3 g

Eudragit NE30D 138.5 g

46.0 g

23.1 g

16.0 g

80 9.0 g

0.5 g

2038.5 g

체	중량비
#18 (850 μm) 상	0 %
#30 (500 μm) 상	0 %
#200 (75 μm) 상	100 %
#200 (75 μm) 통과	0 %

(4)

[Powrex Corp. ( ) , LAB-1] 1321.2 g [Nikken Chemical Co., Ltd. ( )  
 ], LH-32 360.0 g [ 8.8 %, Shin-Etsu C  
 hemical Co., Ltd. ( ) ], 18.0 g, 1.8 g , 896.4 ml  
 (PEG-6000) 3.6 g , 90.0 g 5.4 g 가  
 , (bag) ,

(5)

200.0 g, 300.0 g 1.0 /cm<sup>2</sup> , 11 mm ,  
 가 , Autograph ( ; ) , 500 mg

49 % , 가 , 24.1 % NaOH, 1.7 % Na<sub>2</sub>CO<sub>3</sub>, 4  
 2.9 % , 31.8% H<sub>2</sub>O 100  
 , 40 1 , 50 1 , 70 1 , 5 , 103  
 , 2.5 65 0.13 ( 가 40 % , 3  
 0 ) , 0.20 ( 가 )  
 , 가  
 80 , , LH-33 ( , 100  
 : 17.8 μm ) : 5.8 % ,

2

0.8 μm) 1 LH-23 ( : 5.7 % , : 3

2

(1) 가

: 100 200 μm] [Powrex Corp. ( ) , MP-10 (2 )] 300 g Nonpareil 105 [( )  
 70 30 , 22 g/  
 , 10 가 2186 g (150 300 μm) #48 (300 μm) #100 (150 μm)  
 , Nonpareil

927 g  
 309 g

LH-32 154.5 g

( : 8.8 %)

( : 17.57 μm)

(SSL ) 309 g

3955 g

(2) -

[Powrex Corp. ( ) , MP-10 (2 )] 가 2040 g  
 75 40 , 13 g/  
 , - 2145 g

:

264 g

(2910 , : 3 )

5016 g

(3)

0 g [Powrex Corp. ( ) , MP-10 (2 )] 171  
 70 40 , 17 g/  
 (355 μm) #80 (177 μm) , 7 , #42  
 2393 g (177 355 μm)

:

Eudragit 30D-55 5016.4 g

Eudragit NE30D 559.0 g

333.7 g

106.5 g

80 34.8 g

1.8 g

2547.1 g

(4)

[Powrex Corp. ( ) , MP-10 (2 )] 600 g  
 65 32 , 11 g/  
 , 7 ,  
 617 g  
 334.1 μm

:

33 g

297 g

(5)

[Powrex Corp. ( ) , LAB-1] 800 g [Merck Japan Co., Ltd. ]  
 315 g , 727.3 g

(6)

- 97.3 g 105 g,  
 LH-33 15.0 g ( : 5.8 % , : 17.8 μm),  
 22.5 g [CEOLUS KG-801 ( ) , Asahi Chemical Co., Ltd. ( ) ], 7.5 g,  
 1.5 g, 0.45 g 0.75 g 가 ,

(7)

250.0 g 1.5 /cm<sup>2</sup> , 11 mm (15R) , Autograph ( ;  
 ) , 500 mg

, 5.9 kg 30 .

3

(1) 가

0 200 μm) [Powrex Corp. ( ) , MP-10 (2 )] Nonpareil 105 ( ) 900 g ( 10  
 75 29 , 22 g/  
 5654.7 g 가 ,  
 #60 (250 μm) #100 (150 μm) , 10 Nonpareil .  
 가 2424 g

:  
 1080 g  
 360 g

LH-32 180 g

( : 8.8 %)  
 (SSL ) 360 g

4608 g

(2) -

[Powrex Corp. ( ) , MP-10 (2 )] 가 2337.5 g  
 80 41 , 18 g/  
 ; , 6050 g 가 ,  
 , 10 , - 가 2551 g

:  
 332.5 g

(2910 , : 3 )

LH-32 17.5 g

( : 8.8 %)

( : 17.57 μm)

6650 g

(3)

g [Powrex Corp. ( ) , MP-10 (2 )] - 570  
 75 40 , 18 g/  
 가 , 2646 g  
 (355 μm) #70 (212 μm) , 8 . 1116 g #42

326.9 μm .

:

Eudragit L30D-55 1911 g

Eudragit NE30D 212.9 g

127.1 g

40.6 g

80 13.3 g

0.8 g

970.3 g

(4)

Asahi Chemical Co., Ltd. ( ) 가 , 200 g : 5.8 % , 189.7 g , : 17.8 μm , 15.0 g , LH-23 30.0 g ( ) , 60.0 g [CEOLUS KG-801 ( ) , 2.8 g 25 g

(5)

) 250.0 g , 1.5 /cm<sup>2</sup> , 11 mm (15R) , Autograph ( ; 500 mg , 4.2 kg 24 .

4

(1) 가

: 100 200 μm) [Powrex Corp. ( ) , MP-10 (2 )] 900 g Nonpareil 105 ( ) ( 75 32 , 20 g/ Nonpareil 5654.7 g 가 , ) #100 (150 μm) , 10 가 2280 g #48 (300 μm

:

1080 g

360 g

LH-32 180 g

( : 8.8 %)

(SSL ) 360 g

4608 g

(2) -

[Powrex Corp. ( ) , MP-10 (2 )] 가 1020 g

85 40 , 15 g/

1980 g 가 1330.5 g

120 g

(2910 , : 3 )

(TiO<sub>2</sub>) 240 g

Sterilized Talc ( ) 240 g

[Matsumura Sangyo Co. Ltd. ( ) ]

120 g

2880 g

(3)

[Powrex Corp. ( ) , MP-10 (2 )]

g 80 41 , 13 g/ 460  
가 , 2205 g

Eudragit L30D-55 2290 g

Eudragit NE30D 253 g

153 g

20 g

80 8 g

(TiO<sub>2</sub>) 53 g

Sterilized Talc H ( ) 53 g

[Matsumura Sangyo Co. Ltd. ( ) ]

2420 g

(4)

(3) , 80 35 [Powrex Corp. ( ) , MP-10 (2 )]

10 , 824 g 가 ,  
#42 (355 μm) #60 (250 μm)  
806 g

326.6 μm

:

320 g

2880 g

(5)

LH-23 8.5 g ( : 5.8 %), 120 g : 5.8 %, 87.75 g, 4.5 g ( : 5.8 %), 19.5 g [CEOLUS KG-801 ( ), Asahi Che mical Co., Ltd. ( ) ], 6.5 g, 1.3 g, 1.3 g 0.65 g 가 , , .

(6)

250.0 g 1.5 /cm<sup>2</sup> , 11 mm (15R) , Autograph ( ; ) , 500 mg . , 3.9 kg 20.5 . 97 % .

5

(1) 가

: 100 200 μm [Powrex Corp. ( ) , MP-10 (2 )] 900 g Nonpareil 105 ( ) ( , 22 g/ 65 30 , 5661 g 가 , Nonpareil #42 가 #100 (150 μm) , 8 2074 g (350 μm) #100 (150 μm) , 가 ) .

:

1080 g

360 g

LH-32 180 g

( : 8.8 %)

(SSL ) 360 g

4680 g

(2)

[Powrex Corp. ( ) , MP-10 (2 )] 가 2074 g , 78 40 , 22 g/ 1980 g 가 , (150 μm) , 9 - #42 (350 μm) #100 , 2555 g .

:

252 g

(2910 , : 3 )

(TiO<sub>2</sub>) 108 g

Sterilized Talc ( ) 108 g

[Matsumura Sangyo Co. Ltd. ( ) ]

LH-32 180 g

( : 8.8 %)

252 g

3600 g

(3)

0 g [Powrex Corp. ( ) , MP-10 (2 )] - 132  
 , 80 42 , 22 g/  
 (A) . 1638 g

(A):

Eudragit L30D-55 1219.2 g

Eudragit NE30D 134.4 g

6000 40.8 g

24.0 g

80 7.2 g

0.24 g

( ) 0.24 g

0.48 g

1693 g

76 42 , 22 g/  
 (B) . 6552 g

(B):

Eudragit L30D-55 4032 g

Eudragit NE30D 447.8 g

269.3 g

86.4 g

80 25.9 g

0.86 g

( ) 0.86 g

0.72 g

2624 g

80

42

, 22 g/

(A)

819 g

(4)

(3)

85

35

[Powrex Corp. ( ) , MP-10 (2 )]

, 22 g/

822 g

가

10

#35

(420 μm)

#60

(250 μm)

1964 g

333.7 μm

180 g

1080 g

(5)

270 g

204.0 g,

LH-33 30 g (

: 5.8 %),

30 g [CEOLUS KG-801 ( )],

Asahi Chemical Co., Ltd. ( ) ],

15 g,

3 g,

9 g,

6 g

3 g [STRAWBERRY DURAROME ( ) ],

Nihon Filmenich Co., Ltd. ( ) ]

가

(6)

570 g

1.5 /cm<sup>2</sup>

13 mm

가 , Autograp

h ( ; )

570 mg

, 2.6 kg 20

3.5 %

6

(1) 가

: 100 200 μm)

[Powrex Corp. ( ) , MP-10 (2 )]

750 g

Nonpareil 105 ( ) (

65

30

, 22 g/

4717.5 g

가

Nonpareil

#42

(350 μm)

#100

(150 μm)

8

가

1811 g

:

900 g  
300 g

LH-32 150 g

( : 8.8 %)  
(SSL ) 300 g

3900 g

(2) -

[Powrex Corp. ( ) , MP-10 (2 )] 가 1811 g  
78 38 , 22 g/

(150 μm) , 9 - 5274 g 가 (350 μm) #100 ,  
#42 2628 g

:

378 g

(2910 , : 3 )

(TiO<sub>2</sub>) 162 g

Sterilized Talc ( ) 162 g

[Matsumura Sangyo Co. Ltd. ( ) ]

LH-32 270 g

( : 8.8 %)

378 g  
5400 g

(3)

[Powrex Corp. ( ) , MP-10 (2 )] - 156  
0 g 70 40 , 19 g/

(A) 6048 g

(A):

Eudragit L30D-55 4032 g

Eudragit NE30D 447.8 g

269.3 g

86.4 g

80 25.9 g

0.86 g

( ) 0.86 g

0.72 g

2624 g

72

42  
(B)

, 19 g/  
819 g

(B):

Eudragit L30D-55 609.6 g

Eudragit NE30D 68.0 g

6000 20.4 g

12.0 g

80 3.6 g

0.12 g

( ) 0.12 g

0.24 g

846.7 g

(4)

(3)

, 65 38 [Powrex Corp. ( ) , MP-10 (2 )] ,  
882 g 가 ,  
17 #35 (420 μm) #60 (250 μm)  
2825 g

330.5 μm

:

180 g

1080 g

(5)

270 g

204.0 g,

LH-33 30 g ( : 5.8 %), 30 g [CEOLUS KG-801 ( ),  
 Asahi Chemical Co., Ltd. ( ) ], 15 g, 3 g, 9 g,  
 6 g 3 g [STRAWBERRY DURAROME ( ), Nihon Filmenich Co., Ltd. ( ) ] 가

(6)

h ( ; 570 g ) 1.5 /cm<sup>2</sup> , 13 mm 가 , Autograp  
 , 570 mg .  
 , 3.1 kg 22 .

2.5 % .

7

(1) 가

: 100 200 μm) [Powrex Corp. ( ) , MP-10 (2 )] 750 g Nonpareil 105 ( ) ( , 20 g/  
 75 30 Nonpareil .  
 가 4717.5 g 가 , 10  
 가 1842 g .

:

900 g  
 300 g

LH-32 150 g

( : 8.8 %) (SSL ) 300 g

3900 g

(2) -

[Powrex Corp. ( ) , MP-10 (2 )] 가 1842 g  
 . 74 38 , 19 g/  
 , 5365 g 가  
 (150 μm) , 9 - #42 (350 μm) #100  
 2770 g .

:

378 g

(2910 , : 3 )

(TiO<sub>2</sub>) 162 g

Sterilized Talc ( ) 162 g

[Matsumura Sangyo Co. Ltd. ( ) ]

LH-32 270 g

( : 8.8 %)

378 g

5400 g

(3)

0 g [Powrex Corp. ( ) , MP-10 (2 )] 130  
 , 21 g/  
 (A) 5040 g  
 #35 가 (420 μm) #60 (250 μm) , 16 2453 g

(A):

Eudragit L30D-55 4032 g

Eudragit NE30D 447.8 g

269.3 g

86.4 g

80 25.9 g

0.86 g

( ) 0.86 g

0.72 g

2624 g

g [Powrex Corp. ( ) , MP-10 (2 )] 1000  
 , 19 g/  
 (B) 273 g

(B):

Eudragit L30D-55 610.4 g

Eudragit NE30D 68.0 g

6000 20.4 g

12.0 g

80 3.6 g

0.12 g

( ) 0.12 g

0.24 g

845.12 g

(4)

(3) , [Powrex Corp. ( ) , MP-10 (2 )] ,  
 75 35 , 20 g/  
 294 g 가 ,  
 10 #35 (420 μm) #60 (250 μm)  
 , 1061 g  
 307.1 μm .

:

120 g

720 g

(5)

LH-33 30 g ( : 5.8 %), 270 g 207 g,  
 sahi Chemical Co., Ltd. ( ) ], 15 g, 30 g [CEOLUS KG-801 ( ) , A  
 6 g 3 g [STRAWBERRY DURAROME ( ) , Nihon Filmenich Co., Ltd. ( ) ] 가 ,

(6)

h ( ; 570 g ) 1.5 /cm<sup>2</sup> , 13 mm 가 , Autograp  
 , 570 mg  
 , 3.2 kg 24 .

8

(1) 가

: 100 200 μm [Powrex Corp. ( ) , MP-10 (2 )] 900 g Nonpareil 105T ( ) (  
 , 21 g/ 71 78 31  
 . 5550 g 가 , Nonpareil  
 #42 (350 μm) #100 (150 μm) , 21 가 1723 g

:

1080 g

360 g

LH-32 180 g

( : 8.8 %)

(SSL ) 360 g

4680 g

(2) -

[Powrex Corp. ( ) , MP-10 (2 )] 가 2074 g  
77 41 , 21 g/

, 2787 g 가  
(150 μm) , 13 - 1958 g #42 (350 μm) #100 ,

:

252 g

(2910 , : 3 )

(TiO<sub>2</sub>) 108 g

Sterilized Talc ( ) 108 g

[Matsumura Sangyo Co. Ltd. ( ) ]

LH-32 180 g

( : 8.8 %)

252 g

3600 g

(3)

0 g [Powrex Corp. ( ) , MP-10 (2 )] - 110  
80 41 , 22 g/  
(A) 1365 g

(A):

Eudragit L30D-55 1017.3 g

Eudragit NE30D 113.3 g

6000 34.0 g

20.0 g

80 6.0 g

0.2 g

( ) 0.2 g

0.4 g

1410.8 g

76 41 , 22 g/  
(B) 5040 g

(B):

Eudragit L30D-55 3360 g

Eudragit NE30D 373.2 g

224.4 g

72.0 g

80 21.6 g

0.72 g

( ) 0.72 g

0.6 g

1706.8 g

80 42 , 21 g/  
(A) 682.5 g

(4)

(3) , 80 36 [Powrex Corp. ( ) , MP-10 (2 )] ,  
 , 22 g/  
 735 g 가 ,  
 10 #35 (420 μm) #60 (250 μm)  
 , 2319.5 g .

392.7 μm .

:

100 g

600 g

(5)

LH-33 30 g ( 270 g 204.0 g,  
 : 5.8 %), 30 g [CEOLUS KG-801 ( )],  
 Asahi Chemical Co., Ltd. ( ) ], 15 g, 3 g, 9 g,  
 6 g 3 g [STRAWBERRY DURAROME ( )], Nihon Filmenich Co., Ltd. ( ) ] 가

(6)

h ( ; 570 g ) 1.5 /cm<sup>2</sup> , 12 mm 가 , Autograp  
 , 570 mg .

, 3.7 kg 35 .

3.4 %

9

(1) 가

00 200 μm) [Powrex Corp. ( ) , MP-10 (2 )] Nonpareil 105 (70-140) 300 g ( 1  
 , 85 28 , 20 g/  
 Nonpareil  
 가 , 7  
 #48 (300 μm) #100 (150 μm) , 가 757 g .

:

300 g  
 100 g

L-HPC 50 g

HPC (SSL ) 100 g

1650 g

(2) -

[Powrex Corp. ( ) , MP-10 (2 )] 가 680 g  
 , 70 36 , 10 g/  
 , - 672 g .

:

HPMC 32 g

(2910 , : 3 )

8 g

760 g

(3)

[Powrex Corp. ( ) , MP-10 (2 )] - 450  
 g , 65 36 , 17 g/  
 , #42 (355 μm) #80 (177 μm) , 40 16  
 950 g .

285.4 μm .

:

Eudragit L30D-55 1078.3 g

Eudragit NE30D 138.5 g

46.0 g

16.5 g

16.0 g

80 9.0 g

0.5 g

2038.5 g

체	중량비
#18 (850 $\mu\text{m}$ ) 상	0 %
#30 (500 $\mu\text{m}$ ) 상	0 %
#200 (75 $\mu\text{m}$ ) 상	100 %
#200 (75 $\mu\text{m}$ ) 통과	0 %

(4)

[Powrex Corp. ( ) , LAB-1] 1321.2 g [Nikken Chemical Co., Ltd. ( )  
 ], LH-32 360.0 g [ 8.8 %, Shin-Etsu C  
 hemical Co., Ltd. ( ) ], 18.0 g, 1.8 g , 896.4 ml  
 (PEG-6000) 3.6 g , 90.0 g 5.4 g 가

(5)

200.0 g 300.0 g 1.0 /cm<sup>2</sup> , 11 mm  
 가 , Autograph ( ; ) , 500 mg  
 , 4.2 kg, 27 96.3 % .

(57)

1.  
 400  $\mu\text{m}$  100 (150  $\mu\text{m}$ ) , 1  
 % 50 % , (i) 25  
 , (ii) 1 % pH ,



17.

1

, , , , .